

What is claimed is:

1. An electric machine, in particular an alternator for motor vehicles, having a stator (16), which supports a stator winding (18) that has winding ends (78),
5 having a voltage regulator assembly (65), and having a rectifier, wherein the electrical connection between the winding ends (78) and the rectifier is situated underneath the voltage regulator assembly (65).
2. The electric machine as recited in claim 1,
10 wherein the electrical connection is partially situated between the stator winding (18) and an end plate (13.2) and preferably, underneath a support (84).
3. The electric machine as recited in claim 1 or 2,
wherein the electrical connection between a winding end (78) and an electrical
15 connection (76) of a connecting plate (56) is achieved by means of an interposed conductor element (80).
4. The electric machine as recited in claims 1 through 3,
wherein with regard to an axial direction of the stator (16), the electrical
20 connection has a shorter length in the cross sectional direction than in the circumferential direction.
5. The electric machine as recited in claim 4,
wherein the stator (16) is connected to the interposed conductor element (80)
25 and is able to be inserted as a unit into an end plate (13.2).
6. The electric machine as recited in claim 5,
wherein a junction, preferably a weld, between the conductor element (80) and
the electrical connection (76) of the connecting plate (56) is oriented essentially
30 perpendicular to the axial direction of the stator (16).

7. The electric machine as recited in one of the preceding claims,
wherein an insulating piece (90) partially covers the electrical connection.

8. The electric machine as recited in claim 7,

5 wherein the insulating piece (90) covers a junction between the winding ends
(78) and the conductor element (80).

9. The electric machine as recited in claim 7 or 8,

10 wherein the insulating piece (90) attaches a plurality of electrical connections to
one another.

10. The electric machine as recited in one of claims 7 through 9,
wherein three electrical connections, preferably conductor elements (80), are
provided, which are divided up into two groups.

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11. A stator for an electric machine, in particular for an alternator for motor
vehicles, having a stator (16), which supports a stator winding (18) that has
winding ends (78),

20 wherein the winding ends (78) are connected to an additional conductor element
(80), which joins a plurality of individual wires of the winding ends (78) together
by means of a clamp-like junction region (81) and is embodied in the form of a
sheet metal part.

12. The stator as recited in claim 11,

25 wherein the conductor element (80) extends essentially radially inward.

13. The stator as recited in claim 11 or 12,

wherein the insulating piece (90) partially covers the conductor element (80).

30 14. The stator as recited in claims 11 through 13,

wherein the insulating piece (90) partially covers a junction between the winding ends (78) and the conductor element (80).

15. The stator as recited in claims 11 through 14,
5 wherein an insulating piece (90) joins a plurality of conductor elements (80) together and determines a relative position among the conductor elements (80).